

WHAT ARE SEDIMENTARY ROCKS?

Sedimentary rocks are classified into three groups: detrital, chemical and organic:

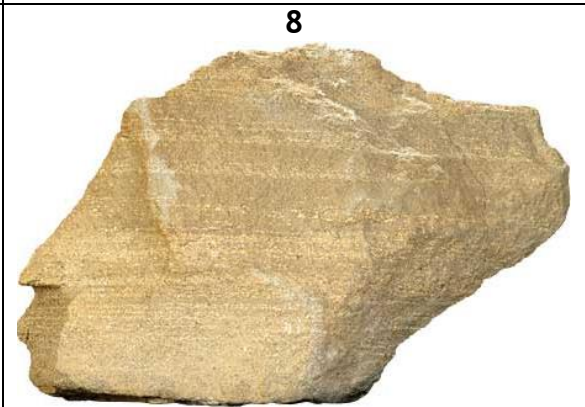
Detrital rocks are made up of fragments of other rocks that are stuck together.

Chemical sedimentary rocks are made of mineral crystals from oceans, lakes and groundwater that have dissolved in water.

Organic sedimentary rocks are made of plants and animals remains which have been transformed into minerals.

- Fill in the blanks with the numbers of the corresponding rocks from the table below.
- Describe a rock from the table below. Your partner guesses each one.

SEDIMENTARY ROCKS		Common sedimentary rocks	Formed by	Properties
Classification of Sedimentary Rocks	Detrital	Conglomerate []	Fragments of rock and some sand	Round or angular fragments
		Sandstone []	Small grains of sand	Grains break off if scratched
		Clay []	Very small grains	Different colours. Smells like wet earth when wet
	Chemical	Limestone []	Chemical reactions. All contain calcium carbonate (CaCO ₃)	Reacts to acids by producing bubbles
		Gypsum []	Evaporation of the water in deposits	Very soft. Can be scratched with a fingernail
		Rock salt []		Tastes salty
	Organic	Coal []	Remains of land vegetation	Soft, black. Burns easily
		Oil []	Remains of marine plants and animals	Thick, black liquid



(To be copied in your notebook)

What is the difference between a mineral and a rock?

Can you tell me the name of a monomineralic rock?

What class of rock comes from a process of...?

Cooling and crystallizing

Changing by high temperature and pressure

Accumulation and compaction

What class of rock comes from a...?

Previous rock

Magma

Sediment

What type of rock is a...?

Quartzite

Slate

Conglomerate

Granite

What classes of rock are formed at depth?

What class of rocks are formed near surface?

What is magma?